

Eric C. Alexander

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EDUCATION

University of Wisconsin-Madison – Madison, WI

- Second-year PhD track student
- GPA: 3.9

Carleton College – Northfield, MN

- Bachelor of Arts, *magna cum laude*, June 2010
- Cumulative GPA: 3.75, Major GPA: 3.88
- National Merit Scholarship Recipient
- English and Theater Study Abroad Program, London, Winter 2009

Graduate Record Exam – taken November 2009

- Quantitative: 800 (94th percentile); Verbal: 650 (93rd percentile); Analytical Writing: 4.5/6

TEACHING EXPERIENCE

UW-Madison Computer Science Department

6/2011 – 8/2011

Lecturer for Data Structures (CS 367)

- Taught eight week course of roughly 30 students
- Responsible for preparing and delivering lectures, as well as creating assignments and exams
- Scored highly on end-of-term evaluations (averaged 4.74 out of possible 5 on question asking "Would you recommend this instructor?")

UW-Madison English Department

9/2011 – 5/2012

Teacher's Assistant for Digital Studies

- Two classes: Digital Rhetoric (ENG 550) and Writing in the Digital Literary (ENG 236)
- For ENG 550, taught students to program in Scratch programming language (developed own curriculum) in addition to discussion leading and grading duties
- For ENG 236, taught students to create Interactive Fiction using Inform7 programming language (developed own curriculum) in addition to discussion leading and grading duties

Carleton College Computer Science Department

3/2009 – 6/2009

Prefect for Data Structures (CS 201)

- Similar to Teaching Assistant at many other schools
- Attended classes, led weekly discussion sections
- Performed one-on-one tutoring with students

Carleton College Computer Science Department

9/2007 – 6/2010

Computer Science Lab Assistant

- Assisted CS students with programming in Python, Java, and other languages

Carleton College Academic Support Center

9/2007 – 6/2010

Writing Consultant

- Tutored individual students in writing across multiple disciplines

LONG-TERM SOFTWARE/RESEARCH PROJECTS

WiscScan – Laser Microscope Controlling Software 9/2011 – Present

Research Assistantship (50%)

Laboratory for Optical and Computational Instrumentation (LOCI)

- Created functionality for collecting scope metadata
- Performed major refactoring of legacy code

Gnarus - Augmented Reality Application for the iPhone 9/2009 – 3/2010

Senior Comprehensive Project

- Collaborated with a team of six senior students
- Designed and was responsible for maintaining the back-end class structure, interfacing the server with the phone UI (done in Objective-C)

OTHER WORK EXPERIENCE

Parametric Technology Corporation 6/2009 – 8/2009

Solutions and Marketing, R & D Department – Catalyst Platform Intern

- Partitioned, configured, and installed a Hudson continuous integration server
- Integrated Hudson server with Git version control repository

Lockheed Martin Space Systems Company 6/2008 – 8/2008

GPS III Systems Engineering, Integration and Test (SEIT) Team Intern

- Gathered and automated progress metrics and peer review collection system
- Designed, implemented, and maintained a new SEIT home page

Lockheed Martin Space Systems Company 6/2007 – 8/2007

GPS II-R Program Intern

- Updated web-based software manual
- Debugged C software for compiler update

EXTRA-CURRICULAR LEADERSHIP

Carleton Gods of Plastic – Club Ultimate Frisbee Team 03/2007 – 06/2010

- Elected Team Captain and President Junior and Senior year
- Led team to back-to-back D-III National Championships in 2009 and 2010

Wisconsin Hodags – Club Ultimate Frisbee Team 09/2010 – 05/2011

- Nominated for All-Region team
- Team took 2nd place at D-I National Championship

ACM North Central Regional Programming Contest 10/2008

- Placed 1st in sectional competition at Macalester College
- Placed in the top 20th percentile of the Central Region

Carleton Club Sports Executive Council 9/2009 – 06/2010

- Senior member of council responsible for overseeing the administration of 27 club sports
- Appointed Marketing/Publications Coordinator – responsible for promoting club sports on campus

TECHNICAL SKILLS

Programming: Python, Java, Objective-C, C++, C#, Lisp, Mathematica, Visual Basic, Prolog, MIPS

Web Development: JavaScript, PHP, HTML

Database Management: MySQL, PostgreSQL